

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A lithium electrochemical cell, comprising:  
an electrolyte comprising:  
a mixture of solvents comprising:  
propylene carbonate;  
dimethoxyethane; and  
a salt mixture comprising:  
lithium trifluoromethanesulfonate; and  
lithium trifluoromethanesulfonimide,  
wherein the cell contains ~~less than~~ between about 100 and 1500 ppm by weight of  
sodium.
2. (Original) The cell of claim 1, wherein the cell contains less than 1200 ppm by  
weight of sodium.
3. (Original) The cell of claim 1, wherein the cell contains less than 1000 ppm by  
weight of sodium.
4. (Original) The cell of claim 1, wherein the cell contains less than 800 ppm by  
weight of sodium.

5. (Original) The cell of claim 1, wherein the cell contains less than 600 ppm by weight of sodium.

6. (Previously presented) A lithium electrochemical cell, comprising:  
an electrolyte comprising:  
a mixture of solvents comprising  
40-80% by weight of dimethoxyethane; and  
20-60% by weight of propylene carbonate; and  
a salt mixture comprising:  
lithium trifluoromethanesulfonate; and  
lithium trifluoromethanesulfonimide, wherein the salt mixture has a  
concentration between 0.4 M and 1.2 M in the mixture of solvents, and  
wherein the cell contains less than 1500 ppm by weight of sodium.

7. (Original) The cell of claim 6, wherein the mixture of solvents comprises:  
50-75% by weight of dimethoxyethane; and  
25-50% by weight of propylene carbonate.

8. (Withdrawn) A lithium electrochemical cell, comprising:  
an electrolyte comprising:  
a mixture of solvents comprising:  
ethylene carbonate;  
propylene carbonate; and  
dimethoxyethane; and  
a salt mixture comprising:  
lithium trifluoromethanesulfonate; and  
lithium trifluoromethanesulfonimide,  
wherein the cell contains less than 1500 ppm by weight of sodium.

9. (Withdrawn) The cell of claim 8, wherein the cell contains less than 1200 ppm by weight of sodium.

10. (Withdrawn) The cell of claim 8, wherein the cell contains less than 1000 ppm by weight of sodium.

11. (Withdrawn) The cell of claim 8, wherein the cell contains less than 800 ppm by weight of sodium.

12. (Withdrawn) The cell of claim 8, wherein the cell contains less than 600 ppm by weight of sodium.

13. (Withdrawn) The cell of claim 8, wherein the mixture of solvents comprises:  
less than 30% by weight of ethylene carbonate;  
40-85% by weight of dimethoxyethane; and  
the salt mixture has a concentration between 0.4 M and 1.2 M in the mixture of solvents.

14. (Withdrawn) The cell of claim 13, wherein the mixture of solvents comprises:  
10-20% by weight of ethylene carbonate;  
50-70% by weight of dimethoxyethane.

15. (Withdrawn) The cell of claim 14, comprising less than 500 ppm by weight of sodium.

16. (Withdrawn) The cell of claim 13, wherein the mixture of solvents comprises:  
5-15% by weight of ethylene carbonate;  
70-80% by weight of dimethoxyethane; and

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Serial No. : 10/085,303  
Filed : February 28, 2002  
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10-20% by weight of propylene carbonate.

17. (Withdrawn) The cell of claim 16, comprising less than 500 ppm by weight of sodium.

18. (Canceled)